

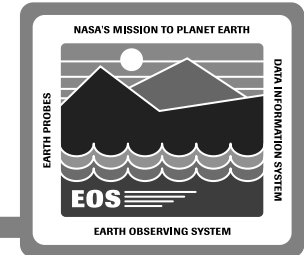


System Level PDR Issues

Joe Guzek

28 February 1995

Operation Concepts



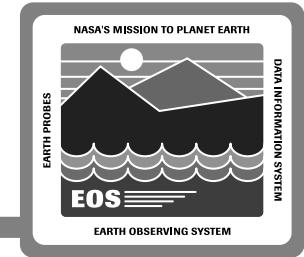
Issue:

- Lack of operational concept perspective and “Day in the Life” understanding
 - Relationship between CSMS, SDPS and FOS Scheduling
 - System Management (including collection of management information)
- Concept of how services/tools are used in operations
- Release dependent operational scenarios needed

Approach:

- In process of generating a new Operations Concept document (DID 604)
 - First part will be at a high level and not release dependent
 - Intent is to have a concept that will not change on a regular basis
 - DAAC comments from previous review being evaluated for inclusion
 - Second part will be site and release specific
 - Generating set of operational “Day in the Life” scenarios
 - Scenarios to cover ECS systems starting with Release A
 - Will be developed in coordination with operational sites

True Cost of COTS



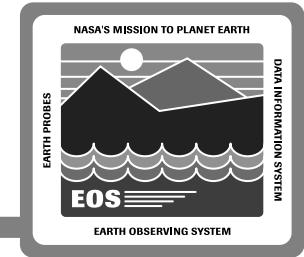
Issue:

- May have underestimated the actual cost of COTS
 - Integration
 - “Glue” code and configuration effort required
 - Upgrades/maintenance in operations

Approach:

- Current development estimation included COTS related efforts
 - Development/I&T Familiarization /Configuration
 - Required data definition, scripts, “glue” code including in SLOC estimates
 - Prototyping effort has included effort for technology/product selection (Includes many key products for Release A)
 - M&O Sustaining Engineering staff includes focused expertise for COTS products and effort for installation and I&T of COTS upgrades

True Cost of COTS (cont.)



Approach (cont.)

- **Currently Revaluating/Refining estimation model**
 - **Metrics being developed to quantify effort required for COTS integration**
Required “glue” software, COTS applicability, COTS maturity, Learning curve, Required configuration effort, Installation labor, Re-installation labor, Release Frequency, average maintenance support)
 - **Metrics will feed cost models to identify associated cost**
SEER model
ECS-Developed Cost Models
- **Results to be available before end of March**